



# FINAL

## Former Naval Station Treasure Island Restoration Advisory Board (RAB) Meeting Minutes

Meeting 180

08 December 2015

### **Community Restoration Advisory Board (RAB) Members in attendance:**

Nathan Brennan, John Gee, Becky Hogue, Alice Pilram (Community RAB Co-Chair), Dale Smith

### **Department of the Navy and Regulatory Agency RAB Members in attendance:**

Keith Forman, Navy RAB Co-Chair  
Remedios [Medi] Sunga, CA Department of Toxic Substances Control (DTSC)  
Myriam Zech, San Francisco Bay Regional Water Quality Control Board  
(Water Board)

### **Other Navy and Regulatory Staff and Consultant Representatives in attendance:**

Dave Clark, Navy  
Yashekia Evans, Tetra Tech, Inc.  
Nicole Fry, Water Board  
Katie Henry, Tetra Tech, Inc.  
Colin Lee, Tetra Tech, Inc.  
Mukesh Mehta, Navy  
Kimberly Noble, Navy  
John Ratz, Parsons

Carrie Ross, Parsons  
Lee Saunders, Navy  
Raymond Schul, Chicago Bridge &  
Iron (CB&I)  
Nathan Schumacher, DTSC  
Tommie Jean Valmassy, Tetra  
Tech, Inc.  
Chris Yantos, Navy

### **Public Guests in attendance:**

Bob Beck, Treasure Island  
Development Authority (TIDA)  
Carol Harvey, journalist  
Kathryn Lundgren, resident

Lavinia Martin, John Stewart  
Company  
Dan Stone, The Villages  
Elizabeth Washington, resident

### **Welcome Remarks and Agenda Review**

Keith Forman (Base Realignment and Closure [BRAC] Environmental Coordinator [BEC]) opened the December RAB meeting for the Former Naval Station Treasure Island (NAVSTA TI) held at the Casa de la Vista (Building 271) on Treasure Island (TI). Mr. Forman conducted introductions.

Mr. Forman said question and answer periods are noted on the agenda (Attachment A). Community members have three minutes each after every presentation for questions and comments specific to that presentation. They are also offered three minutes during the general Q&A agenda item for any additional comments or questions. Alice Pilram (RAB community co-chair) reviewed the agenda.

TRIE-2205-0058-0231

### **Old Business - RAB Minutes Approval**

Minutes for meeting 178 August 2015 were approved final during the October 2015 RAB meeting. However, subsequent to that meeting, Dale Smith (RAB member) provided additional edits. Ms. Smith noted one of her edits is a comment that does not need to be incorporated. The RAB voted to approve Ms. Smith's edits and amend the final minutes for meeting 178.

John Gee (RAB member) provided edits to the minutes for meeting 179. The RAB voted to approve the minutes with Mr. Gee's comments incorporated.

### **Old Business - BRAC Cleanup Team Update**

Medi Sunga (DTSC) said her agency recently completed the documentation required by the California Environmental Quality Act (CEQA) for the Site 12 removal action being planned for the Gateview Area. A negative declaration is out for public review, with the comment period ending December 14, 2015. Comments can be sent to Ms. Sunga or her colleague, Nathan Schumacher (DTSC). Ms. Smith said she did not receive the negative declaration and asked how the public was notified of the comment period. Ms. Sunga said a public notice was placed in the *San Francisco Examiner*, and copies of the notice were mailed to the DTSC mandatory mailing list. The negative declaration can also be found on DTSC's website Envirostor. Ms. Sunga offered to mail a hard copy to Ms. Smith. Mr. Schumacher asked if other members of the RAB would like a copy of the document, or just the notice. It was agreed that the negative declaration document will be sent to Ms. Smith, and the rest of the RAB members will be sent the notice.

Myriam Zech (Water Board) said her agency signed the Site 24 Record of Decision (ROD), and reviewed several documents, including the Site 31 Remedial Action Completion Report (RACR).

### **New Business - Field Work Update: Site 12**

Mr. Forman introduced Chris Yantos (Navy) to present the update on the field work in Site 12 (Attachment B). Mr. Yantos said there are three disposal areas that are being excavated, and he will discuss the progress since the last RAB meeting in October.

Mr. Yantos said he will provide an update on the work at all three solid waste disposal areas (SWDA): North Point, Bayside, and Westside. The field work began at North Point, where to-date, 7,672 cubic yards of soil have been excavated. The field team has removed buried debris in three of the four survey units. It has been determined that Building 1235 needs to be demolished. The surrounding area had to be backfilled so equipment could reach the building. As the photograph on slide 4 shows, the area near Building 1235 has been backfilled, so the Navy will begin preparing the building for demolition. Mr. Yantos

explained the steps in the backfill process at Site 12. An orange “snow fence” is placed at the bottom of the excavation, then rock is placed on top. Geofabric is placed on top of the rock, followed by backfill soil to get the area back up to grade. The soil is then seeded, and new growth will help prevent erosion.

On slide 5 Mr. Yantos showed a photograph of a temporary soil dam used to keep water out of the excavations. A pump is put in the bottom of the hole and water is pumped into adjacent survey areas so the field team can visually inspect the area they are excavating and look for debris.

Mr. Yantos provided an update on the excavation at Bayside, which is approximately 64 percent complete. To date, 69 low-level radiological objects (LLRO) have been found at Bayside. Those LLROs are primarily associated with the Historic Burn Area. He explained Bayside is, more or less, progressing in the same manner as North Point. However, the team will return to Bayside to excavate the Historic Burn Area at a later date, once work plans have been modified to account for the potential munitions-related debris and scrap in that area.

Mr. Yantos said excavation at Westside began after work at North Point and Bayside. Initial excavation was conducted at Westside in 2007 under a different contract. There were five radiological waste containers on-site holding material from that excavation. This fall the field team sorted the material in those containers, and found 87 LLROs. That task is complete, and the radiological waste containers are tentatively scheduled to be moved off the island by mid-December.

There is a deep disposal area on Westside, near Building 1321, at the end of the historical runway. Debris is at a depth of about 14 feet in this area. Because the excavation is so deep, the field team installed a slide rail system (pictured on slide 9) to shore up the excavation and keep it from collapsing in on itself. In the photograph on the right of slide 9 you can see large pieces of metal wire/cable that have been excavated. This excavation pit is approximately 60 feet by 60 feet, and is 14 feet deep. Again, that is because this is an historical deep disposal area.

As presented at previous RAB meetings, empty shell casings were found at Westside in 2007. Though they were inert, a munitions expert must oversee the excavation at Westside because of the potential for munitions to be present. Twenty eight pieces of munitions debris have been found, to date, during the Westside excavation. On November 19, 2015, munitions experts found a 2 inch cartridge casing that may have contained a primer, shown in photographs on slide 11. A primer is not a projectile and it is not gun powder. However, it could be flammable, so the primer was vented (destroyed in a controlled manner).

Mr. Yantos discussed the photographs on slide 12. These show materials dug up from the different debris areas. Items include welding rods, cables, concrete, and old car parts.

Mr. Yantos reviewed the tally of LLROs. To-date 793 LLROs have been found at NAVSTA TI. Since this Site 12 removal action began in May 2015, 183 LLROs have been encountered and removed; 87 were in the five radiological waste bins and 96 were in the disposal areas being excavated. There are special bins designed to hold low level radiological waste (LLRW); each one can hold about 20 cubic yards. To date, 30 bins have been filled. A specialized, permitted radiological waste broker must then complete the paperwork and then be responsible for removing the bins off of the island.

Mr. Yantos reviewed the schedule. After excavations are complete, the Navy must scan and test the soil and prepare the completion reports. A Final Status Survey Report summarizing radiological work and a RACR Remedial Action Completion Report will be finalized in August 2016.

Ms. Smith asked if the Navy will excavate to a depth of 14 feet in the areas where they have determined debris is buried that deep. Mr. Yantos said the original estimate was to excavate to a depth of 4 feet, with the plan being to excavate to whatever depth they find debris. Ms. Smith noted that in some of the photographs it appears the field team is excavating in a watery hole. Mr. Yantos said there is no technical reason they cannot excavate when the hole is filled with groundwater. A visual inspection can be made of the material when it is brought to the surface and loaded. However, some of the excavation areas are dewatered to allow equipment to better move around, which also aids in the visual inspection.

Ms. Smith said based on the photographs it appears the munitions scrap items were properly disposed of at the time they were discarded. Mr. Yantos said that appears to be true. Many of the munitions scrap items appear to be mementos: many are crimped shut at the end and one had writing on it. The Navy never expected any of the materials to be live munitions; having the munitions experts on site is an extra precaution. Mr. Yantos said his team engaged another part of the Navy called NOSSA (the Naval Ordnance Safety & Security Activity), which oversees military munitions, including ranges, to ensure all safety protocols are being followed.

Kathryn Lundgren (community member) requested that residents continue to receive the newsletters that used to be mailed to the community. Mr. Forman said the Navy is preparing a progress report that will be distributed to the residents in early 2016. Ms. Lundgren asked when the rest of Bayside Drive will be addressed and if it is part of the project Mr. Yantos presented. Mr. Clark said

Mr. Yantos has a project specifically to address what are known as the SWDAs. Anything at Site 12 that is outside of these areas will be addressed in a separate project. That is part of the planned work for 2016, which Mr. Forman and Mr. Clark will present next. Ms. Lundgren said the fences defining the current work area have expanded several times. She would like to know if they are going to get close to her building. She said her housing provider dug up an area to repair a pipe and they turned up burned material when they did that. She said the burned material may be graded out further than the Navy knows if they are not going to be working right in front of her house where that burned material was. Mr. Yantos said his project is to address the SWDAs and that is what he is “chasing” with his excavations. There will be a project to address areas outside of the SWDAs.

#### **New Business – 2015 Look Back and 2016 Look Ahead**

Mr. Clark and Mr. Forman presented the summary of 2015 work and the planned work for 2016 (Attachment C). Mr. Forman explained the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) is the law under which most of the Navy’s environmental work is conducted at NAVSTA TI. It is a set of guidelines and step-by-step procedures for site cleanup. This presentation is organized by two types of work: field work and documents. The Navy transferred several large portions of land to the City of San Francisco this year, and transfer is the ultimate goal of all of this environmental work.

Mr. Clark reviewed some of the key documents completed in 2015 (slide 4). He noted the Site Management Plan (SMP) is updated annually, and describes the history and the path forward for every site, including timelines for cleanup. The SMP can be found at the information repository.

Mr. Clark reviewed some of the field work accomplishments in 2015 (Slide 5). Slide 6 has a map of radiological investigation areas that are being investigated based on information from the Historical Radiological Assessment Supplemental Technical Memorandum (HRASTM). Mr. Forman said the Navy received a radiological free release letter from California Department of Public Health (CDPH) for former Building 233. That is a significant achievement for transfer and redevelopment, and is the first free-release letter the Navy has received at NAVSTA TI since 2009.

Beginning on slide 7, Mr. Clark showed photographs of various field work conducted in 2015. The largest project has been the Site 12 SWDAs work that Mr. Yantos presented several times during the year, including earlier at this meeting.

Mr. Forman said the Navy transferred 561 acres of NAVSTA TI property to the City of San Francisco in May 2015. Of that property, 290 acres is “upland” and

the rest is submerged lands around the island. With this transfer, the Navy no longer owns any portion of Yerba Buena Island.

Mr. Clark moved on to the plans for 2016, with a list of major milestones listed on slide 12. Once radiological scanning has been done at any given site, a final status survey (FSS) report must be submitted to CDPH in order to gain radiological free release. The sites that were or will be scanned as noted in the 2015 accomplishments will have an FSS report submitted in 2016.

Mr. Clark said Site 12 is the TI Housing Area, and it is at the Proposed Plan (PP) stage in CERCLA. The PP will be issued in early 2016, and there will be a comment period with a public meeting to make a presentation and take comments on the Navy's PP for Site 12. Mr. Clark noted the PP will not cover the disposal areas Mr. Yantos is working on in Site 12; this PP is for areas within Site 12 other than the SWDAs. Following the PP, there will also be a ROD for Site 12 in 2016.

Mr. Clark said the Navy will continue to investigate Site YF3 on Yerba Buena Island. Site YF3 is a petroleum site, and is not part of the CERCLA program, so the Navy was able to transfer the land while continuing to investigate petroleum constituents in that location. Mr. Forman said Mukesh Mehta (Navy) will be the project manager for Site YF3. The continued investigation and preparation of a baseline ecological risk assessment is being conducted to address concerns from the Water Board. Mr. Forman said the SWDA work in Site 12 is expected to be completed in 2016. He thanked community members for their patience during the inconvenience of all of the work. He said there will be other projects in Site 12 in 2016, including the total petroleum hydrocarbon (TPH)/arsenic cleanup at Gateview Avenue. That project will include demolition of three buildings and excavation to remove weathered petroleum. Ms. Smith asked if the Navy will focus on treating or removing the petroleum. Mr. Forman estimated that the Navy will attempt to excavate most of the petroleum, and will use an oxygen release compound to treat what they cannot excavate.

Another field project that will take place in 2016 is the work at Site 24. A remedial design/remedial action work plan will be finalized in mid-2016 and field work will take place sometime in summer 2016.

Mr. Forman said community outreach for 2016 will include RAB meetings, Navy attendance at community meetings, progress reports mailed to the entire community, work notices, required public meetings such as the Site 12 PP public meeting, and another community bus tour.

Mr. Forman asked for questions from the RAB. Becky Hogue (RAB member) asked if the Navy will transfer any additional land to the city in 2016. Mr. Clark

said there will be one or two phases of transfer in 2016. The Navy expects to transfer Sites 21 and 27, as well as Building 3, possibly in the first quarter of the year.

Ms. Hogue asked where the RAB meetings will be held in 2016 since the Casa de la Vista may no longer be available due to redevelopment. Mr. Forman said he is working with Bob Beck (TIDA) to determine an alternate meeting place on TI. Mr. Beck said he believes the RAB can use the Casa de la Vista through the April 2016 meeting.

Ms. Smith said she no longer receives groundwater monitoring reports for the 13 sites that were listed as "closed" in the presentation. She asked if the Navy continues to monitor groundwater at those sites. Mr. Clark said the Navy now has one groundwater monitoring report that is issued annually. The only sites with groundwater monitoring are Sites 6, 12, 21, and 24. Mr. Forman said there are land use controls that require inspections, so there may be monitoring at those sites. Mr. Clark said the Navy will be creating a monitoring well atlas that will identify the location of all wells on NAVSTA TI. Many wells that are no longer needed will be appropriately decommissioned/destroyed.

Ms. Smith said she is interested in Site YF3 and would like a detailed presentation about the discussions the Navy and Water Board have had about the site, and the expected path forward.

Mr. Forman opened the floor to questions from the community. Carol Harvey (journalist) asked what project is taking place at the bottom of Avenue M near California; she said the Navy appears to be digging deep trenches. After some discussion it was determined Ms. Harvey must mean the area along Avenue M between Third and Fourth Streets. Mr. Clark said that was part of the former Building 233 storm drain line investigation, completed two or three weeks ago.

Ms. Harvey said during the community tour in 2014 the Navy said bioremediation was working at Site 24. During the tour in October 2015, the Navy did not mention bioremediation and instead said the contamination was going to go away on its own. Mr. Clark said part of the official remedy for Site 24 is bioremediation, and if he neglected to mention that part of the remedy during the tour, it was an oversight.

Ms. Lundgren pointed to an area on the map where there is an outfall and a pump station between North Point and Bayside. She asked why the storm drains and wastewater lines in this area were not scanned or investigated as part of the investigations of other lines on TI discussed during the summary of 2015 projects. Mr. Forman said that outfall was not listed as "impacted" in the HRASTM. Mr. Clark confirmed that is correct, they were not impacted and not

part of this survey project. The only portion of a storm drain system that was listed as impacted was related to former Building 233.

Ms. Lundgren asked for clarification whether the housing area has already been transferred to the city, or if it has received radiological free release. Mr. Forman said the TI Housing Area, Site 12, has not transferred to the city, and does not yet have radiological free release. Ms. Lundgren asked if Site 12 is owned and managed by the Navy. Mr. Forman said the Navy still owns Site 12, but the housing is managed by TIDA.

Ms. Lundgren asked who specifically approved Site 12 for current residential use. She said the site is not finished and she does not understand why residential use is being allowed. She also asked how the Navy got the site off of the National Priorities List (NPL). Mr. Forman explained that NAVSTA TI has never been on the NPL. Regarding residential use, a document called a Finding of Suitability to Lease (FOSL) made a declaration that, based on everything that was known at that time, Site 12 was suitable for residential use. Ms. Lundgren asked who specifically on the regulatory team authorized the FOSL and when they are going to reverse their decision. Mr. Forman said there is no indication that any reversal of the decision to lease TI is warranted. He added that the regulators who approved the FOSL have thousands of data points they used to make that decision.

#### **New Business - Document Tracking Sheet and Field Schedule**

Mr. Clark presented the Document Tracking Sheet (DTS) (Attachment D) and the Field Schedule (Attachment E). He noted there is a priority column on the DTS that helps the regulators prioritize their reviews.

#### **New Business - Co-Chair Announcements and Future Agenda Items**

Ms. Pilram said she would like a presentation on Site YF3 in 2016. Mr. Forman agreed the Navy will provide a Site YF3 presentation in 2016 when there is data or a work plan to present.

#### **Community Question and Answer Period**

Ms. Harvey asked if Building 1321 is where most of the munitions were found, and if that is the area that was near the end of a former runway. Mr. Yantos said there was a designated area where items were buried at the end of a runway, and it is near Building 1321. Ms. Harvey asked if the concrete foundation has been removed. Mr. Yantos said the foundation is currently in use, but closer to the end of the project it will be broken up. Mr. Yantos said what was found was munitions scrap, which is not the same as munitions. Ms. Harvey asked if radiological items were found there as well. Mr. Yantos confirmed LLROs were found in the area, and referred Ms. Harvey to Attachment B for the presentation that provides the full details.



Ms. Harvey asked if the Navy is still doing major work at Site 31. Mr. Clark said there is no major work at Site 31. The Navy is conducting some additional investigation that may take 1 or 2 weeks. A workplan for that investigation will be issued in 2016. Ms. Harvey asked if the investigation is for chemicals or radiological constituents. Mr. Clark said it is a radiological investigation for additional information requested by CDPH. Ms. Harvey asked why children are playing at Site 31 if further investigation needs to be done. Mr. Clark said there are no issues at the surface and the Navy has completed cleanup there; CDPH is requesting additional subsurface data. Ms. Harvey asked if the Navy is saying the area is safe for children. Mr. Forman said the Navy and the regulatory agencies all agree that the area is safe. CDPH is asking for confirmation data prior to final sign-off on the site, which is a common request.

### **Closing Remarks**

Mr. Forman thanked everyone for attending. The next RAB meeting will be Tuesday, February 23, 2016. The meeting was adjourned at 9:12 p.m.

### **NSTI RAB Action Items**

#	Action Item	Due Date	Status
	Provide a Site YF3 Presentation	During 2016	Pending

### **08 December 2015 RAB Meeting Handouts**

- Attachment A: NAVSTA TI RAB Meeting No. 180 Agenda
- Attachment B: Site 12 Field Work Update
- Attachment C: 2015 Look Back and 2016 Look Ahead
- Attachment D: Document Tracking Sheet
- Attachment E: Field Schedule

AGENDA  
NAVAL STATION TREASURE ISLAND  
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING  
Tuesday, 08 December 2015  
Casa de la Vista Building 271, Treasure Island  
MEETING NO. 180

**I. WELCOME REMARKS AND AGENDA REVIEW**

**7:00 – 7:05    Welcome, Introductions**  
Lead: Keith Forman, Navy Co-Chair

**7:05 – 7:10    Agenda Review**  
Lead: Alice Pilram, Community Co-Chair

**II. OLD BUSINESS**

**7:10 -7:20    RAB meeting Minutes Approval Meeting 179**  
Lead: Keith Forman, Navy Co-Chair

**7:20 – 7:30    BRAC Cleanup Team Update**  
Leads: DTSC and Water Board

**III. NEW BUSINESS**

**7:30 – 7:50    TI Field Work Update: Site 12**  
Lead: Chris Yantos  
Presentation Q&A : RAB  
Presentation Q&A : Community

**7:50 – 8:20    2015 Look Back and 2016 Look Ahead**  
Leads: Keith Forman and Dave Clark  
Presentation Q&A : RAB  
Presentation Q&A : Community

**8:20– 8:30    Document Tracking Sheet and Field Schedule**  
Lead: Dave Clark, Navy

**8:30 – 8:40    Co-Chair Announcements and Future Agenda Items**  
Leads: Alice Pilram and Keith Forman

**IV. COMMENTS ON NON-AGENDA ITEMS**

**8:40 – 9:00    Community Question and Answer Period**  
Lead: Keith Forman, Navy Co-Chair

**9:00            Adjourn**

Next Regular Meeting: No January 2016 Meeting

7:00 pm Tuesday, February 23, 2016 Casa de la  
Vista, Treasure Island

Next Treasure Island Citizen's Advisory Board (CAB) Meeting: See the web site for latest dates  
and times for future meetings: [www.sftreasureisland.org](http://www.sftreasureisland.org)

Next Interim RAB Community Member Conference Call: 7:00 p.m. Tuesday, 26 January  
2016

Navy BRAC Web Site: <http://www.bracpmo.navy.mil> (click on map for Treasure Island)

\*Navy San Diego Office Address:

Director  
Navy BRAC PMO West  
33000 Nixie Way  
Building 50, Attention Keith Forman  
San Diego, CA 92147

Keith Forman: \*(619) 524-6073  
Local phone number (unchanged) (415) 308-1458

\*Note, this address and phone are new as of July 20, 2015

Site 12 Field Work Update  
Westside/ Bayside/ North Point

NAVAL STATION TREASURE ISLAND  
SAN FRANCISCO, CALIFORNIA

Restoration Advisory Board Meeting  
December 8, 2015

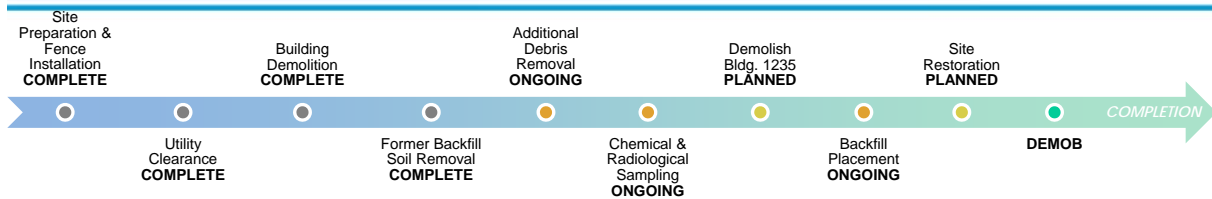
Presentation Overview



**Site 12 Field Work Update**

- Progress Update: North Point
- Progress Update: Bayside
- Progress Update: Westside
- Munitions Debris Update
- Examples of Solid Waste
- Low Level Radiological Object (LLRO) and Waste bins and containers
- Activity Schedule
- Contact Information

## Project Status: Disposal Area North Point



- Soil excavated: 7,672 cubic yards (116% of planned amount)
  - Removal of deeper debris deposits in 3 of 4 survey units completed
  - 1 survey unit backfilled
- 15 rad objects (LLROs) removed
- Remaining work:
  - Complete deeper debris removal in remaining 1 survey unit
  - Radiological survey and asbestos abatement of Building 1235
  - Building 1235 demolition
  - Debris removal beneath Building 1235
  - Backfill excavated areas

## Project Status: Disposal Area North Point



Survey Unit (SU) 1



Disposal Area North Point, Survey Unit 1

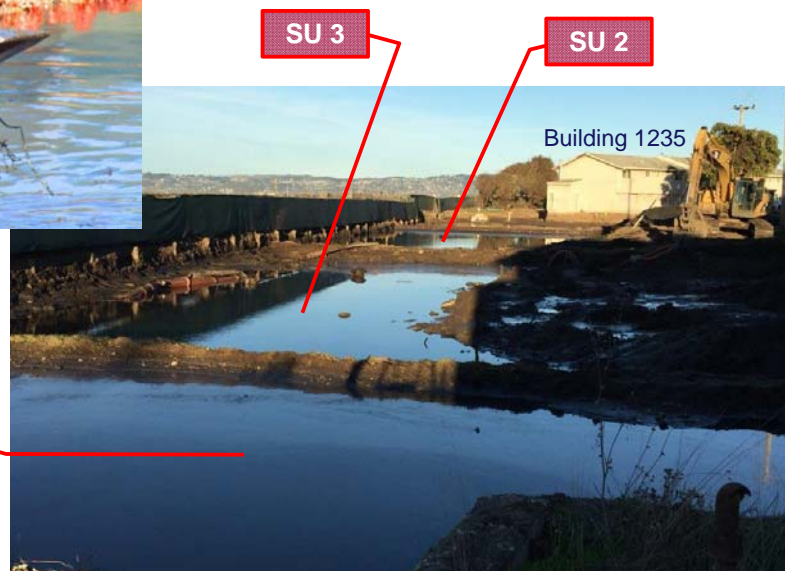


Disposal Area North Point (looking west) after backfill was completed

## Project Status: Disposal Area North Point



Removal of debris from deeper depths (4-12 feet below ground surface) at Disposal Area North Point.



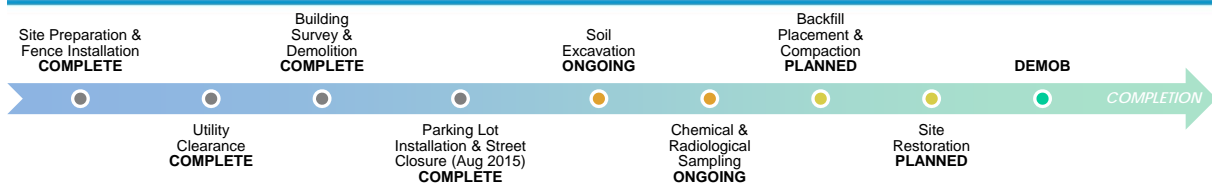
North Point (looking east): SU (survey unit) 1 has been backfilled. SU 2 and 3 have completed debris removal. Currently completing excavation in SU 4.

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BRAC Program Management Office.

December 2015

## Project Status: Disposal Area Bayside



- Soil excavated (to date): 8,244 cubic yards (64% of planned amounts)
- Concrete processing (building foundations) complete
- 69 LLROs removed
- Radiological survey/sampling 1 of 5 survey units complete
- Revising work plan document to include debris and munitions scrap from the "Historic Burn Area"
- Remaining work:
  - Removal of deeper debris and rad objects at "Historic Burn Area"
  - Radiological survey and confirmation sampling in remaining four survey units
  - Backfill excavated areas

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BRAC Program Management Office.

December 2015



## Project Status: Disposal Area Bayside

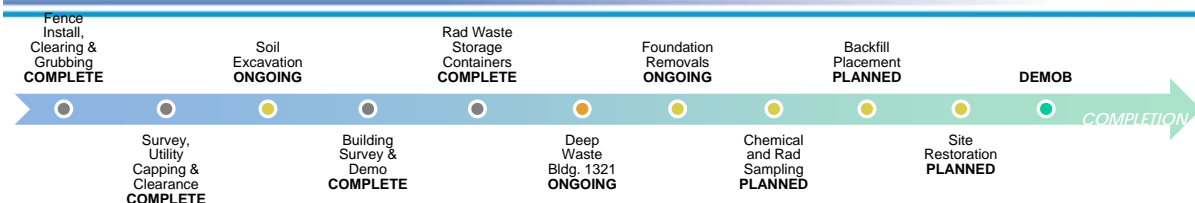


Debris found within "Historic Burn Area".



Radiological scanning of darker material from "Historic Burn Area"

## Project Status: Disposal Area Westside



- Partially excavated in 2007 – Actively excavating remaining areas
- Soil excavated (to date): 1,158 cubic yards (8% planned amount)
- 12 LLROs removed
- Material processing of five rad waste containers complete (87 LLROs extracted)
- Removal concrete building foundations underway
- October 2015: Began installation of slide rail system and excavation of deep waste area (30% complete)
- Remaining work:
  - Remove four remaining concrete building foundations
  - Complete removal of solid waste at deep waste area
  - Solid waste removal in remaining areas
  - Backfill

## Project Status: Disposal Area Westside

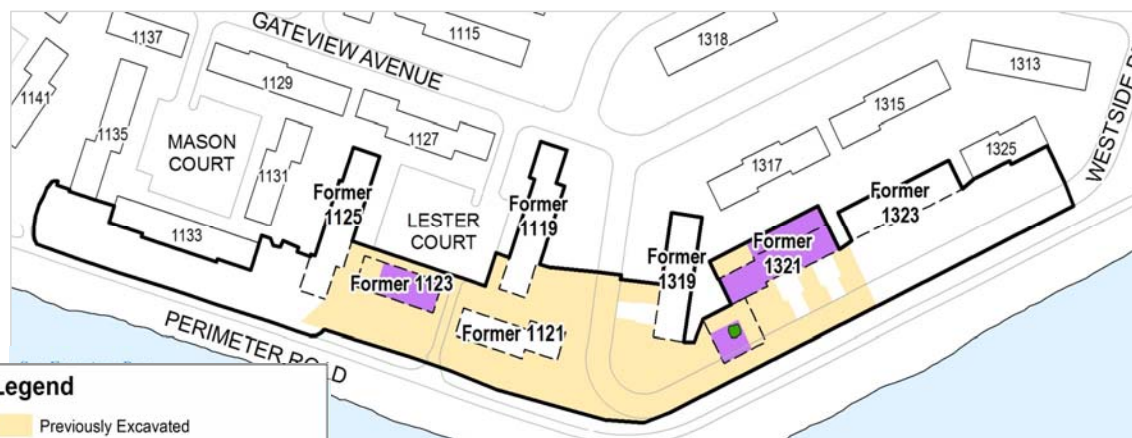
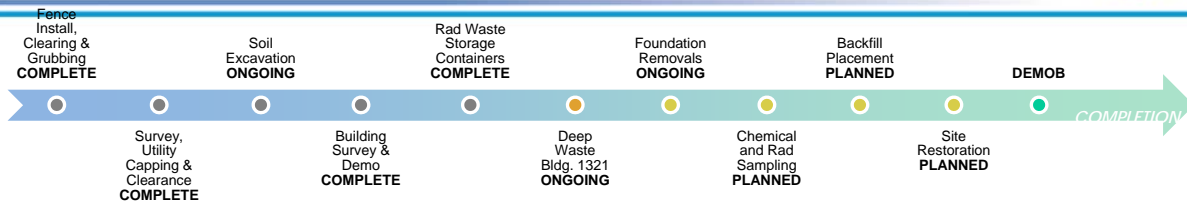


Installation of slide rail system to aid removal of waste deposited at depth (4-15 feet below ground surface) at Building 1321 Deep Waste Area.



Excavation of cable and large metal pieces from within the slide rail "boxes" at Building 1321 Deeper Waste Area.

## Project Status: Disposal Area Westside





## Disposal Area Westside – Munitions Debris Update



- 28 pieces of munitions debris have been found during the excavation work (to date)
- On November 19, munitions experts discovered a 2" inch cartridge casing that may have contained a primer
- The primer was vented prior to disposal



**Left:** Team protocol and safety briefing



**Left:** 2" inch cartridge case in a 5 gallon bucket before venting

## Examples of Wastes from Disposal Areas



Welding rods removed from North Point from 4-12 feet below ground surface



Large metal debris and cables removed from Deep Waste Area at Building 1321 at Westside.



Munitions Scrap from Westside

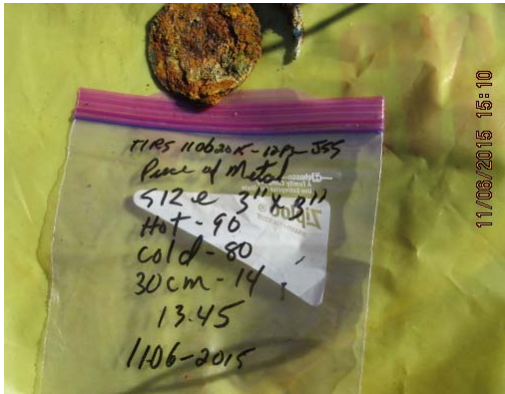


Sewer line piping, concrete and waste soils from North Point

## Project Status – Low Level Radiological Object (LLRO)



- 793 LLROs at Treasure Island to date
- Since Site 12 field work started (May 2015), 183 LLROs have been encountered and removed:
  - Radiological waste containers: 87 LLROs
  - Disposal Areas: 96 LLROs



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December 2015

## Low-level Radiological Waste (LLRW) Roll-off Bins



- 30 roll-off bins have been filled with LLRW since project start
- Navy's LLRW licensed waste broker (Environmental Management Services, Inc) handle shipping and disposal
- Bins typically get shipped to US Ecology's facility in Grandview, Idaho



LLRW bins filled and ready for release to EMS for disposal

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December 2015

## Project Status: Disposal Area Westside – Radiological Waste Storage Containers



- Five radiological waste containers were processed in October
- Containers have been transferred to (Environmental Management Services, Inc)
- EMS is preparing for shipment
- Waste containers are planned to be shipped to US Ecology



Processed Radiological Waste Storage Containers

## Activity Schedule: Monthly Look Ahead





## Schedule of Milestones



**May 2015 – Excavations Started**

**April 2016 – Excavations Complete**

**May 2016 – Soil Pad Processing Complete**

**May 2016 – Radiological Field (Final Status) Surveys Complete**

**June 2016 – Site Restoration Complete**

**July 2016 – Waste Disposal Complete**

**Aug 2016 – Final Status Survey Report**

**Aug 2016 – Final Remedial Action Completion Report**



## Contact Information



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# QUESTIONS?

## **2015 Look Back/ 2016 Look Ahead Environmental Cleanup Program Naval Station Treasure Island**

December 2015 RAB Meeting  
Keith Forman, BRAC Environmental Coordinator  
Dave Clark, Lead Remedial Project Manager

12/08/2015

### **Look Back 2015 Overview**



- Status of CERCLA Sites
- 2015 Accomplishments – Documents and Field Work
- Radiological Surveys
- Field Work Photos
- Transfer Update

## Status of CERCLA Sites



- Thirteen sites are closed
- Eight open CERCLA sites on Treasure Island
  - 7 of 8 are Record of Decision or further (6, 21, 24, 27, 30, 31, 32)
  - Site 12 is in Proposed Plan stage
- Three open CERCLA sites on Yerba Buena Island (8, 11, 29); all are on Caltrans property

## 2015 Key Accomplishments – Documents



- Site 12 Residential Scan Summary Report – February
- Site 21 Remedial Action Completion Report – February
- Site 24 Proposed Plan – March
- Site 12 Feasibility Study Addendum – June
- Site 12 Action Memo for Arsenic/TPH Plume – October
- Site 12 Bigelow Court Post-Construction Summary Report– October
- Remedial Action Completion Report for Site 31 – November
- 2015 Final Site Management Plan – November
- Site 24 Record of Decision signed – December

## 2015 Accomplishments – Field Work



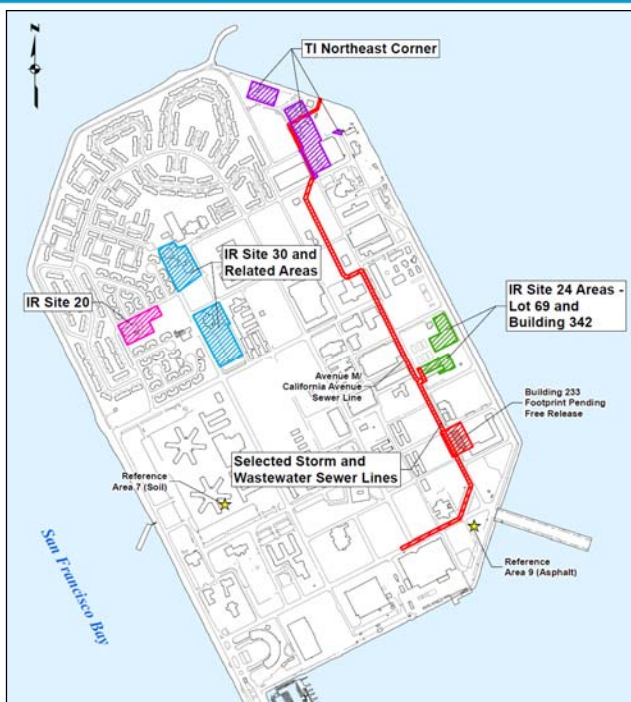
- Radiological Surveys at Various Areas (see map on next slide) – throughout 2015
- Site 12 Residential Radiological Scans Follow-up – July
- Site 6 Radiological Survey – August
- Sites 6, 12, 21, and 24 Groundwater Monitoring – September
- Sites 21 and 24 Soil Gas Monitoring – September
- Site 12 Solid Waste Disposal Area Cleanup– Ongoing
- Site 24 Pre-Design Investigation of Soil Gas and Groundwater - Ongoing
- Sites 31 Final Status Survey – Ongoing

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## Completed Radiological Surveys of Various Sites



- ✓ Northeast Corner
- ✓ Site 24
- ✓ Site 20
- ✓ Site 30 and Related Areas
- ✓ Storm and Wastewater Lines

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December 8, 2015



## 2015 Field Work Photos – Various Radiological Scans



Radiological scanning at Former Building 233 site. This site received radiological free release in 2015.



Collecting a small sediment sample from a water line vault.

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## 2015 Field Work Photos continued



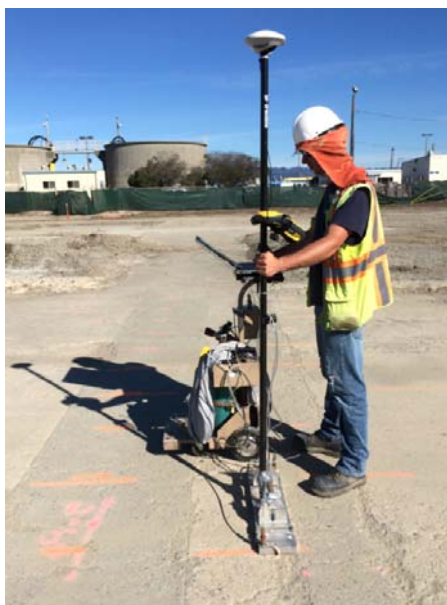
Installing a soil gas monitoring well at Site 24.



Soil gas monitoring at Site 24.

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Scanning concrete slab at Site 6.



Removal of a deactivated transformer at Site 6.

## Transfer Update

- The Navy tendered approximately 561 acres to the City of San Francisco On May 29, 2015.
- This includes 290 acres of upland property, and all of the submerged area except Site 27, as noted on the figure.

### Parcels

Initial Closing Parcel

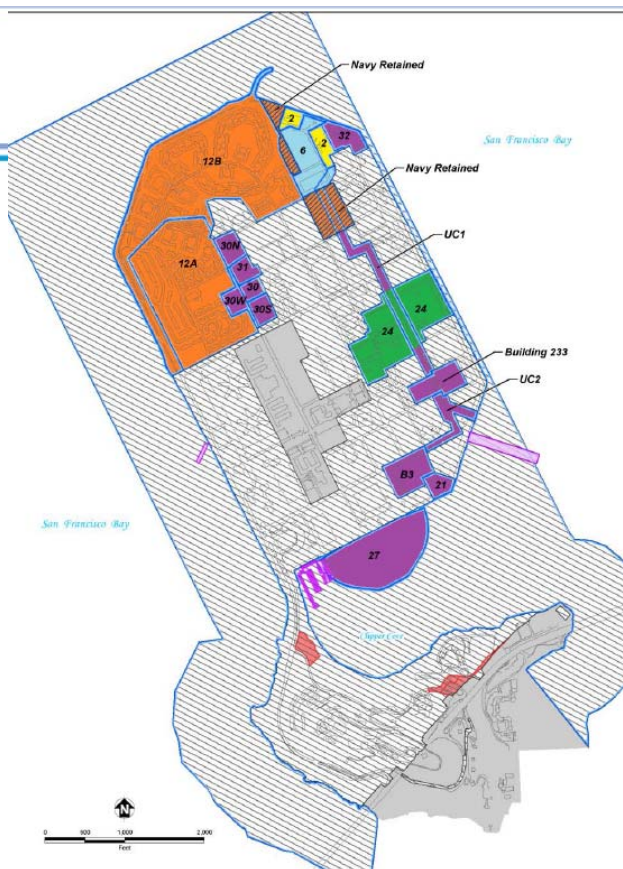
Parcels 21, 27, 30, 30N, 30S, 31, 32;  
Bldg 3 & 233 Sites; UC1 & UC2

Parcel 6

Parcel 24

Parcel 2

Parcel 12 and Navy retained sites





- Key Goals
- 2016 Plans by Site
- Radiological Program
- Community Outreach

## 2016 Key Goals

HK1



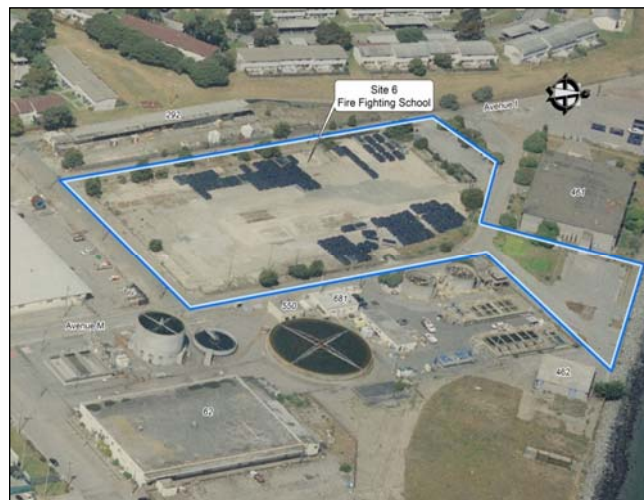
- Final radiological status survey reports Sites 6, 31, 32A, and 32B
- Site 32B Radiological scanning
- Site 12 Phase II Post-construction Summary Report
- Site 12 Proposed Plan (non-rad excluding the solid waste disposal areas) and Proposed Plan community meeting April 2016
- Site 12 Record of Decision (excluding the solid waste disposal areas)
- Complete cleanup/fieldwork at arsenic/petroleum Gateview Area
- Complete Site 12 Solid Waste Disposal Area cleanup (in Northpoint, Bayside, and Westside)
- Site 32 Record of Decision
- Complete field investigations and prepare Baseline Ecological Risk Assessment at Site YF3 on YBI

## Site 6 – Former Fire Training School



### Site 6

- Final Status Survey Report in 2016
- Navy proposes removing soil with dioxins, furans, total petroleum hydrocarbons (TPH), VOCs, and polycyclic aromatic hydrocarbons (PAH)
- Annual groundwater monitoring continues



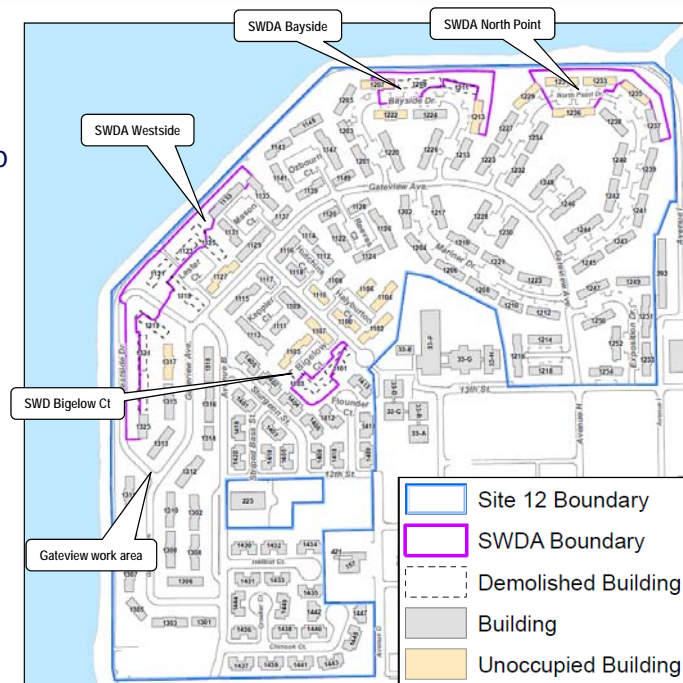


## Site 12 – TI Housing Area



### Site 12 Removal Action

- Ongoing work in Solid Waste Disposal Areas includes additional demolition of buildings, digging up remainder of solid waste, and doing radiological screening and confirmation.
- Solid Waste Disposal Area Remedial Action Completion Report in 2016



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## Site 12 – TI Housing Area (continued)



- Groundwater contamination in Gateview area (arsenic and weathered petroleum) action memo and work plans prepared in 2015, field work begins mid 2016, ending late 2017
- Proposed Plan and Record of Decision for areas outside the solid waste disposal areas



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## Site 24 – Dry Cleaning Facility



### Site 24

- Proposed Plan issued in February 2015
- Record of Decision to be signed in December 2015
- Remedial Design/ Remedial Action Work Plan will be finalized in mid 2016
- Remedial Action field work will take place in summer 2016



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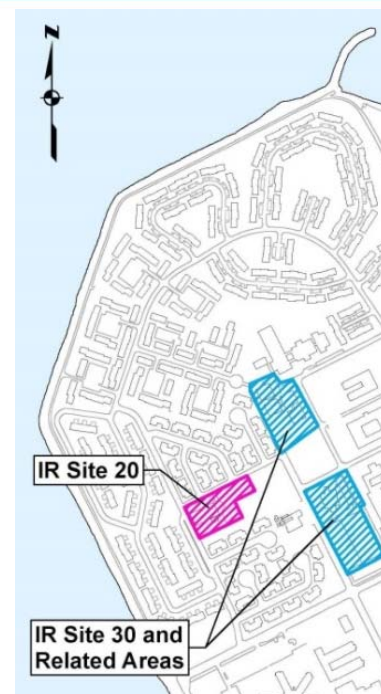
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## Site 30, 30 North/30 South



### Site 30

- Figure shows the survey units from the 2015 radiological scans
- Additional field work, including scanning and soil sampling Spring 2016
- Summary report of radiological scanning anticipated August 2016



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## Site 31 – Former Storage Yard



### Site 31

- Additional radiological surveys in Spring 2016
- Final status survey to be issued in October 2016



## Site 32 – Former Training and Storage Area



### Site 32

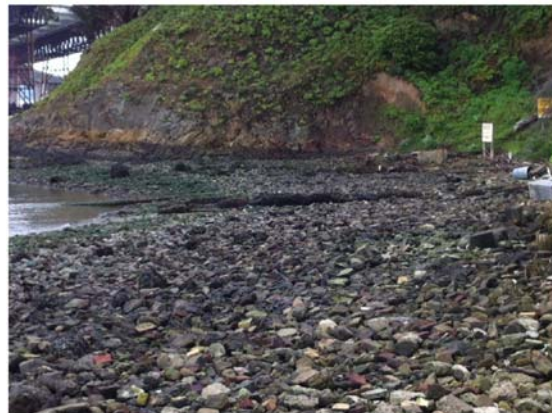
- Record of Decision will be finalized in April 2016
- Final Status Surveys for 32A and 32B will be completed
- Site closeout is expected December 2016



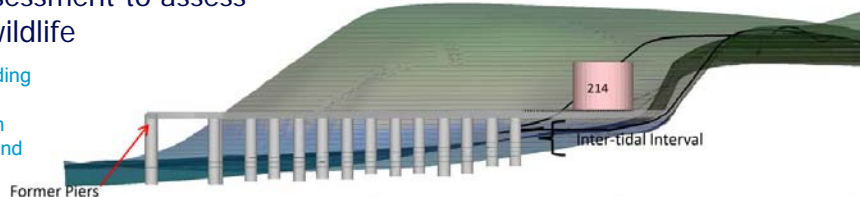
## Site YF3 – Petroleum Site on Yerba Buena Island



- Mid 2016, issue workplan to fill in data gaps
- Late 2016 conduct additional field work including more surface/subsurface sediment samples along the shore and further landward and toward the Bay/Treasure Island
- Collect shallow pore water samples using a Trident Probe (good at sampling in rocky area) to evaluate presence and concentrations of contamination, if any
- Use this information to develop baseline ecological risk assessment to assess potential risk to wildlife



Site model of Site YF3, including former aboveground storage tank. Potential contamination lies within tidal mixing zone and is fully inundated at high tide



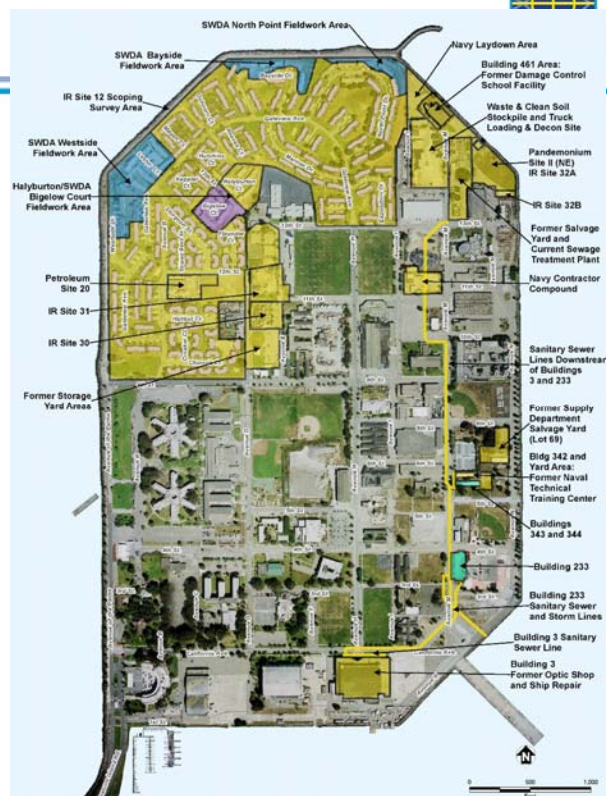
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## Radiological Program



-  Radiological Survey Complete, Free Release Achieved
-  Radiological Cleanup Complete, Free Release Pending
-  Remediation Planned or In Progress
-  Radiological Surveys in progress or reporting pending
-  Interior Surveys Completed within Buildings at Site 12



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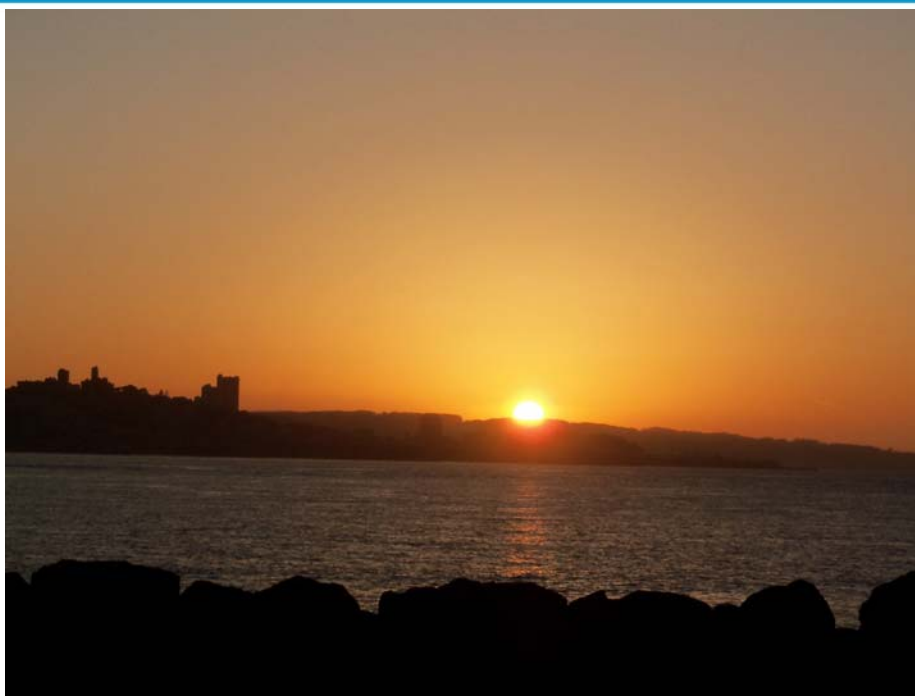
## Community Outreach



- Continue implementing the Community Relations Plan, including:
  - RAB support
  - A community bus tour
  - Public meetings, including Proposed Plan meeting for Site 12
  - Progress reports
  - Work notices
  - Community meeting support



## Questions?



**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
December 2015 - May 2016**

			DRAFT										RTC				FINAL			
Item	Document Title & Information	CTO/DO	Draft to Agencies	Agency Comments						Priority Review	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Final to Agencies	Comments						
				Date Due	DTSC	WATER BOARD	TICD/TICD	RAB	OTHER											
Radiological Reports																				
1	FSS Report for Building 3 RPM: Danielle Janda PM: John Baur, Gilbane	1	10/15/15	✓	11/28/15			✓		1	12/05/15		12/12/15		12/28/15	CDPH to provide comments by 12/11.				
2	Historic Avenue N Storm Drain Removal WP RPM: Kimberly Noble PM: John Hackett, CB&I	1	10/15/15	✓	11/13/15			X	✓	2	11/19/15		11/25/15		12/16/15	Work plan sent without SAP; SAP sent out 10/22				
3	Scoping Survey of Wastewater Lines Downstream from Former Bldg 233 Report- Part I RPM: Kimberly Noble PM: John Baur, Gilbane	1	12/11/15		01/09/16					3	01/17/16		01/24/16		02/11/16					
4	FSS Report for Historic Avenue N Storm Drain RPM: Kimberly Noble PM: John Hackett, CB&I	1	02/16/16		03/17/16					5	03/31/16		04/26/16		05/19/16					
5	FSS Report for Storm/Waste Water Lines - Part II RPM: Kimberly Noble PM: Lisa Bersick, CB&I	1	12/18/15		01/17/16					6	02/08/16		03/09/16		03/20/16					
6	FSS Report for Site 6 RPM: Louie Cardinale PM: Shanti Montgomery, TIEC	1	02/01/16		03/07/16					7	03/17/16		03/31/16		04/21/16					
7	FSS Report for Northeast Corner RPM: Kimberly Noble PM: Ulrika Messer, CB&I	1	12/18/15		01/17/16					8	02/08/16		03/09/16		03/20/16					
8	FSS Report for Site 32A RPM: Kimberly Noble PM: John Baur, Gilbane	1	01/18/16		02/17/16					9	03/18/16		04/17/16		05/10/16					
9	FSS Report for Site 24 (Building 342, Lot 69) RPM: Kimberly Noble PM: Lisa Bersick, CB&I	1	12/28/15		01/29/16					10	02/20/16		03/21/16		04/01/16					
10	FSS Report for Site 20 RPM: Kimberly Noble PM: Lisa Bersick, CB&I	1	12/28/15		01/27/16					11	02/18/16		03/19/16		03/30/16					
11	Site 30 Radiological WP/SAP Addendum RPM: Louie Cardinale PM: Lisa Bersick, CB&I	1	12/22/15		02/09/16					12	02/12/16		02/15/16		02/23/16					
12	Site 31 Data Gaps Investigation WP/SAP RPM: Louie Cardinale PM: Lora Battaglia, CB&I	1	12/23/15		01/27/16					13	02/03/16		02/10/16		02/23/16					
13	FSS Report for Site 30/30N/30S RPM: Louie Cardinale PM: Lisa Bersick, CB&I	1	06/27/16		07/27/16					14	08/06/16		08/13/16		08/29/16					
14	FSS Report for Site 31 RPM: Louie Cardinale PM: Lora Battaglia, CB&I	1	08/09/16		09/12/16					15	09/26/16		10/08/16		10/20/16					
Site 6																				
15	RD/RAWP RPM: Bryce Bartelma PM: Ted Tyler, CE2 Kleinfelder	1	12/18/15		01/17/16						02/16/16		03/17/16		04/09/16					
Site 12																				
	Action Memo for Removal Actions at Site 12 RPM: Bryce Bartelma PM: Cheryl Martin, TriEco-TI	1	06/10/15	✓	07/08/15	✓	✓	✓	✓		08/06/15	✓	08/24/15	✓	10/30/15	✓				
	SWDA Bigelow Court PCSR Report RPM: Tony Konzen PM: Ulrika Messer, CB&I	1	07/23/15	✓	08/25/15	✓	✓	✓	✓		09/25/15	✓	10/02/15	✓	10/23/15	✓				
16	TCRA WP RPM: Bryce Bartelma PM: Ted Tyler, CE2 Kleinfelder	1	02/26/16		03/28/16						04/07/16		04/14/16		05/30/16					
17	PP/RAP RPM: Bryce Bartelma PM: Karen Miller, Helios	1	12/18/15		01/15/16						02/14/16		03/15/16		04/07/16					

**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
December 2015 - May 2016**

Item	Document Title & Information	CTO/DO	DRAFT								RTC			FINAL		Comments
			Draft to Agencies	Agency Comments						Priority Review	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Final to Agencies			
				Date Due	DTSC	WATER BOARD	TIDA/TICD	RAB	OTHER							
Site 24																
18	ROD/RAP	:	05/06/15	✓	06/05/15	✓	✓	✓	✓		07/27/15	✓	11/23/15	✓	12/10/15	
	RPM: Danielle Janda															
	PM: Jean Michaels, TriEco-Tt															
19	RD/RAWP	:	02/17/16		03/16/16						03/30/16		05/03/16		06/10/16	
	RPM: Mukesh Mehta															
	PM: Carrie Ross, Parsons															
Site 31																
	RACR	:	06/26/15	✓	07/27/15	✓	X	✓			09/30/15	✓	10/15/15	✓	11/17/15	✓
	RPM: Louie Cardinale															
	PM: John Baur, Gilbane															
Site 32																
20	ROD/RAP	:	12/21/15		01/18/16						02/01/16		02/29/16		03/22/16	
	RPM: Kimberly Noble															
	PM: Karen Miller, Helios															
Other Reports																
21	2014 Finding of Suitability to Lease (FOSL)	:	01/09/16		02/07/16						02/21/16		03/02/16		03/11/16	
	RPM: Sarah Ann Moore															
	PM: Dennis Kelly, TriEco-Tt															
22	2014 Finding of Suitability to Transfer (FOST) 5	:	12/14/15		01/13/16						01/18/16		01/22/16		01/27/16	
	RPM: John Hill															
	2015 Site Management Plan	:	08/03/15	✓	09/01/15	✓	✓	✓			09/29/15	✓	10/21/15	✓	11/20/15	✓
	RPM: Danielle Janda															
	PM: Marcie Rash, TriEco-Tt															

✓ Production or review of document is complete. Abbreviations:

X Received notification of no comments or comments deferred to other agency.

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 60 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 60 days.

CTO/DO = Contract task order/delivery order  
 DTSC = Department of Toxic Substances Control  
 EPA = U.S. Environmental Protection Agency  
 FS = Feasibility study  
 FSS = Final status survey  
 LUC = Land use control  
 NA = Not applicable  
 NTCRA = Non-time critical removal action  
 PCSR = Post-construction summary report  
 PM = Project manager  
 PP = Proposed plan  
 RACR = Remedial action completion report  
 RAP = Remedial action plan  
 RAWP = Remedial action work plan

RD = Remedial design  
 ROD = Record of decision  
 RPM = Remedial project manager  
 RTC = Response to comments  
 SAP = Sampling and analysis plan  
 SWDA = Solid waste disposal area  
 TBD = To be determined  
 TCRA = Time-critical removal action  
 TICD = Treasure Island Community Developers  
 TIDA = Treasure Island Development Authority  
 TPH = Total petroleum hydrocarbons  
 TSP = Task specific plan  
 Water Board = Regional Water Quality Control Board

**Naval Station Treasure Island  
Navy Field Schedule  
December 2015 - May 2016**

Item	Activity and Investigation Area	Field Dates	Navy RPM (Contractor)	Complete
<b>Site 12</b>				
1	Phase III Non-Time Critical Removal Action	Start: 05/12/15 Finish: 06/07/16	Chris Yantos (CB&I)	
<b>Site 24</b>				
2	Data Gaps Investigation	Start: 07/13/15 Finish: 07/12/16	Mukesh Mehta (Trevet)	
<b>Site 31</b>				
3	Final Status Survey - Additional Field Work	Start: 02/24/16 Finish: 04/28/16	Louie Cardinale (TBD)	
<b>Other</b>				
4	Historic Avenue N Storm Drain Removal	Start: 12/07/15 Finish: 01/20/16	Kimberly Nolte (TBD)	
5	Basewide Groundwater Monitoring	Start: 03/01/16 Finish: 03/22/16	Louie Cardinale (TBD)	

Abbreviations:

✓ Field work is complete.  
RPM Remedial project manager  
SWDA Solid waste disposal area  
TBD To be determined

Yellow shading indicates field activities that will start or finish within the next 60 days.

Grey shading indicates field activities are complete.